

Standalone SAR test exclusion considerations

RF feature	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm) ^{Note1}	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
Bluetooth LE	GFSK(1Mbps)	2 480.00	5.0	3.80	6.00	3.981 1	1.25	3.00
Bluetooth	BDR(1Mbps)	2 480.00	5.0	3.80	6.00	3.981 1	1.25	3.00
Bluetooth	EDR(2,3Mbps)	2 480.00	5.0	3.80	7.50	5.623 4	1.77	3.00

Note1. Please refer to the operation description for Max Tune-up power.

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm

$$\left[\left(\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right) \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1g SAR and } \leq 7.5 \text{ for 10g extremity SAR}$$

Sample Calculation

$$= \left[\left(\frac{3.9811\text{mW}}{5\text{mm}} \right) \right] \times \sqrt{2.48\text{GHz}} = 1.25$$

Note. The calculation result was rounded to two decimal place for comparison.

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required